

SEQUENCE LISTING

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 Turner, Leah

<120> Compositions and Methods Relating to Lung Specific Genes and Proteins

<130> DEX-0275

<150> 60/252,055

<151> 2000-11-20

<150> 60/252,496

<151> 2000-11-22

<160> 55

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<210> 12
 <211> 251
 <212> DNA
 <213> Homo sapien

<400> 12
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aaagctatga a 251

<210> 13
<211> 624
<212> DNA
<213> Homo sapien

<400> 13
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aaaacaacac acacaagcaa acaa 624

<210> 14
<211> 1623
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (856)..(856)
<223> a, c, g or t

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 aaaacacaca acaccaaac caaacacaca ccagacacca aaacaacaca cacaagcaaa 1620
 caa 1623

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 <211> 393
 <212> DNA
 <213> Homo sapien

<400> 15
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 cctttttttt cccccccggg gggggggggtg gtggggagca gtaaacatca ggcccaggaa 180
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<210> 16
<211> 839
<212> DNA
<213> Homo sapien

<400> 16
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<210> 17
<211> 1176
<212> DNA
<213> Homo sapien

<400> 17
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<210> 18
 <211> 1069
 <212> DNA
 <213> Homo sapien

<400> 18
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 catgtgccg tgtttagtct gcgccacgtt tagaatactt gatggctatc tgagcgtggg 180
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 accactgagt gggcgcaaaa atgaacggta gtgtcccccc ggtgggtgtgc gacacacat 480
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<210> 19
 <211> 637
 <212> DNA
 <213> Homo sapien

<400> 19
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<210> 20
 <211> 895
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (365)..(365)
 <223> a, c, g or t

<400> 20
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<210> 21
 <211> 506
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (276)..(276)
 <223> a, c, g or t

<220>
 <221> misc_feature
 <222> (462)..(462)
 <223> a, c, g or t

<400> 21
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506

<210> 22
 <211> 5387
 <212> DNA
 <213> Homo sapien

<400> 22
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 tgtctgtcaa aggcaccagg tggagagggc ccggcacagg cccacctg tccaaacct 4560
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 aaaaaaaaa cattctgacg tgcagaatat tttttttat ttctgttag attatagtgt 4860
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<210> 23
 <211> 361
 <212> DNA
 <213> Homo sapien

<400> 23
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 aaaattagga tcagtgaag aaaattgaag aaactaggat cagtaagaga aactgtttgc 180
 ttacctgaa tttaactatg aaaacacact taacaatctt acacgtttct agatattaag 240
 tgaatatgta actctgtgcc atgggtagat gtgtatcttt gacttctgta attattttg 300
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 a 361

<210> 24
 <211> 1682
 <212> DNA
 <213> Homo sapien

<400> 24
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 tctattccat ttgttaaacc gaacagacat tccccatcag gcatttataa cattaatgtg 180
 accacattag tctctagtga aaaaaacctc ttgggcaag taagaaaaga agagaatact 240
 ccaggacaga tgtccgtttg cctgaactaa actataatca tctcctgaa ctaagagcac 300
 tggggaggcat agctcgaaat tccaggctaa caagaaaaga gagcaaaatt ctttcagaat 360
 ctgaattcc ttctctggct gctattgacc tgcacacccc cagtattaca ttacatcagg 420
 tatcaggacc tcccctgta gatgattcag gggctgattt gcctcaaagt gaaccaggc 480
 actgagaacc attttgggtc tgaactggat gatgctcttg cacttgagat gacatcttct 540

tgcagcaaga gtgctgatat cccaagagga gagattcatg gttttgatca tttccttctg	600
aactgcctgc attttctgag gaaggccttc tagaagaagg aaagacaaag acttccaaat	660
gtttcaaagg aagattgaac aaatggccct ccccaactgt tatcccatca cctttcacgt	720
ccaccgatgc tatttcaaga catatccagt ggaataacag tgatattggt cttgtttacat	780
gaatgtgtat ttactgttag gagattgtat attttaagtt accatgatta aaagtgtgta	840
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gtgttttctg tataaatgtg tacatttatt taggagtggg ttcgtgggg gtaggtgata	960
aaaattagga tcagttgaag aaaattgaag aaactaggat cagtaagaga aactgtttgc	1020
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tgaatatgta actcctgtcc atgggtagat gtgtatcttt gacttctgta attatttttg	1140
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aatgcaagct tgacagagaa acctctttcg aatgaattac tacaactctg gcattgggta	1260
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agggtcaaaa tcatttacct gcattccaca catcttttcc aatgcattga tccaaaactt	1560
tttaggtggg aggaataaac taagtggct acaggttctt gatttctggg tttctacaca	1620
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tt	1682

<210> 25
 <211> 718
 <212> DNA
 <213> Homo sapien

<400> 25	
cggccgaggt accagagaaac atacagtaaa taatgatttt tacatattga agttgcagtt	60
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gctcaagtga ttggagtgat ttctgcaatt actagtttgt tctataacta agactgtttg	180
ttggtctctg catatacttt caggtcatta aatgctacag aaatgagaaa tgaatacaaa	240
actttttaac tctactcag atgtccaaac agcttcttag ttctgtcag atcagtaata	300
atactggggt ttgtctttct taaaccaagc ataactctgc ttatettaga atgaacagat	360

atctctattc agaggtaaat agagttaacc ttctactcgtg taatttttat tgttggttta 420
 ccatttcacg gtgttcacac tagccccctt tcctttccct ctaagtgact gctgaggttc 480
 tcaccatttc agaataaaat tcttgctcct tgaggttgga aatttaatga taatgaaaaa 540
 ctgtatgtgt cagtatactt aaaaggaaag gttatatcat tctcctcatt tggatgtaaa 600
 atttacctgt tagagaacac attggaatta tagaacagaa acacaccccc aaacacacgg 660
 ctgggctgtaa ccagggccaa agcgggcccg ggtgaatggt atccgccca aatccatc 718

<210> 26
 <211> 708
 <212> DNA
 <213> Homo sapien

<400> 26
 ggatacacag aatgatcata tatgggccat gttatctaga tgcagtctcg agccggcgct 60
 aatgtgatgg atggtcgcgg cgaggtacca gacatgctca aaatgtgctt tcccgttatc 120
 tttcagaacc caccaccagg aaacccaaac ggacccact ctgagagttc catgatgaag 180
 gtgtttaatg aaatcacatt aaccctaaag taaaggcagt agatgaaatt atccattatc 240
 ttttgtctct ttttttttca tagtgtgaga ctacgattgg caaagtggga aaacggacac 300
 ccaactcatt tgattagcag aataaatggt gtccattaaa tccctcctct ttgaaagtta 360
 tgtgcattgc ccagcagtg tacgcttttag tgccctgcaa ctccagaca ctttcgggag 420
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 cgtagggacc ccatctcgtg gttttcttct tttgtacgaa aagaagcaga tttctgtggc 540
 gaagacgcta ttgcagacca caagggaggc tcataggaac actgtctcat attgattact 600
 ctatgagaag aaactccgtg gtatggaaaag ggggcactga gagatctggg cgctcgagag 660
 aaacagtggg ggacgcacag ggccggataa gatccaagcc cctattat 708

<210> 27
 <211> 1026
 <212> DNA
 <213> Homo sapien

<400> 27
 ggtcaaacgc ggaacacaaa gagtatgtg tatccatatt cgttgcaaaa atgataatta 60
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 aatatacaga tgttcgctca aggtctaggt tttattttcta catagtagta ttcacatgag 180
 ttccctattc tgaagtatta tcaaaacagag gacccttgaa ggtcgagccc agcttctctt 240
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atcatgtctt ctcattgttt acaacaagct gtgtctctga aaactaaat cagacttcag 360
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 atgaaattat ccattatctt ttgtctcttt tttttcata gtgtgagact acgattggca 600
 aagtgggaaa acggacaccc aactcatttg attagcagaa taaatgggtg ccattaaatc 660
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 cccagacact ttggggaggc cgatggcaga aaggactcgc ttgagccag gagtccgagc 780
 accagcctgg gcaacttacg tagggacccc atctcgttgt tttctcttt tgtacgaaaa 840
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 tgtctcatat tgattactct atgagaagaa actcccggtg atggaagggg ggcaactgaga 960
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 tattat 1026

<210> 28
 <211> 406
 <212> DNA
 <213> Homo sapien

<400> 28
 gaagatgact catatagggc gatggttcaa catagatgca tgctcgagcg gcgcgttgtg 60
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 ggtgaacaag tgctggtttc acaatactca gcaagtgttt acacattggg ccaaggacag 180
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 cacagagcca tagattttca tttctgact cagctctggt ctgagaccgg ggccataggg 300
 gttcttgag agacagggca gatggaagaa gtggaaggca tctgcacact gtatagtgcc 360
 ttttaagccac ccccatggcc tgagttggtt tcctttttta caaatg 406

<210> 29
 <211> 818
 <212> DNA
 <213> Homo sapien

<400> 29
 gcttttctgt gttgagctgc acttaaatc gtgtcatttc atgttggtac aggtactcca 60
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agcaagtgtt tacacattgg gccaaaggaca gatttttctt ggagaaggat ttaccactg 180
 ccaccatctt gaaattcttc atcgttttgg aacacagagc catagatttt catttctgca 240
 ctcagctctg ttctgagacc ggggccatag ggggttcttg agagacaggg cagatggaag 300
 aagtggaagg catctgcaca ctgtagagt cctttaagcc acccccatg cctgagttgt 360
 ttctcttttt tacaaatgaa gcttggtctt ttctgggtct ctccaagggt gagtgtagga 420
 gggcagtggt ttccgtagcc tctggctctg gccgcgctct cagactcttc agttctcttc 480
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 aaatgcaagg ctgtgtaagt ccaacaaata tgccacatcc atgtcacctc tgggggtctga 660
 tccagctctt caacaaccac cgtcacccct caacaggcag gtgacagtgg cgagacggcc 720
 cagcccagca acaggctccc ccattgcagt gccattgcta tgccagagga cacaaccccc 780
 agaccttgac tctctctcac agaccctgaa cagctaga 818

<210> 30
 <211> 57
 <212> PRT
 <213> Homo sapien

<400> 30

Met Leu Trp Pro Arg Leu Ser Leu Ser Arg Thr Pro Pro Val His Leu
 1 5 10 15

Ser Arg Cys Asp Thr Arg Arg Arg Arg Leu Ser Glu Pro Leu Pro Lys
 20 25 30

Ser Val Arg Gly Glu Ile His Arg Ala Cys Glu Arg His Thr Lys Cys
 35 40 45

Pro Val Ala Leu Ile His Tyr Ile Ile
 50 55

<210> 31
 <211> 80
 <212> PRT
 <213> Homo sapien

<400> 31

Met Ser Tyr Lys Asn Gln His Thr Lys Gln Thr Glu Gln Phe Arg Ser
 1 5 10 15

Leu Cys Tyr Ser Leu Pro Asp Leu Arg Ser Tyr Cys Leu Ala Tyr Pro
20 25 30

Pro Ser Thr Tyr Leu Cys Tyr Phe Leu Ser Asn Ile Gln His Ile Pro
35 40 45

His Thr Asn Ile Thr Asn Arg Ser Thr Ser Gln Gln Arg Val Ile Tyr
50 55 60

His Ser Ser Leu Thr Ala Leu Val Thr Ile Leu Asn His Pro Gln Thr
65 70 75 80

<210> 32
<211> 41
<212> PRT
<213> Homo sapien

<400> 32

Met Cys Val Thr Arg Ser Leu Leu Asn Cys Leu Tyr Arg Ile Pro Trp
1 5 10 15

Leu Glu Ser His Asp Cys Ser Phe Gly Ser Ala Pro Glu His Cys Thr
20 25 30

Glu Thr Ala Cys Val Gln Gly Val Gly
35 40

<210> 33
<211> 135
<212> PRT
<213> Homo sapien

<400> 33

Met Met Ser Ser Ser Ala Ser Pro Leu Ser Leu Pro Leu Ser Leu Trp
1 5 10 15

Arg Phe Ser Thr Leu Pro Ala Leu Pro Arg Ala Gln Phe Pro Pro Asp
20 25 30

Pro Thr Lys Val Lys Gly Glu Glu Glu Lys Arg Gly Arg Gly Ser Asp
35 40 45

Ala Thr Ser Val Leu His Leu Val Ala Glu Arg Glu Gly Pro Thr Arg
50 55 60

Asp Arg Gly Ser Leu Cys Val Cys Val Cys Val Cys Val Cys Val Cys

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65

70

75

80

Val Cys Val Cys Val Leu Arg Trp Ser Leu Ala Leu Ser Pro Arg Leu
85 90 95

Glu Gly Ser Gly Ala Ile Leu Ala His Cys Asn Leu Arg Leu Pro Gly
100 105 110

Ser Ser Asp Ser Pro Ala Ser Ala Ser Gln Val Thr Gly Ile Thr Gly
115 120 125

Val Pro Arg Pro Arg Pro Arg
130 135

<210> 34

<211> 90

<212> PRT

<213> Homo sapien

<400> 34

Leu Arg Trp Ser Leu Ala Leu Ser Pro Arg Leu Glu Cys Ser Gly Ala
1 5 10 15

Ile Leu Ala His Cys Asn Leu Cys Leu Pro Ser Ser Ser Asp Ser Pro
20 25 30

Ala Ser Ala Ser Gln Val Ala Gly Ile Thr Gly Ala His His His Val
35 40 45

Gln Leu Ile Phe Val Phe Leu Val Glu Thr Gly Phe Arg His Val Gly
50 55 60

Ala Ala Ala Leu Glu Leu Leu Thr Ser Gly Asp Pro Pro Thr Ser Ala
65 70 75 80

Ser Gln Ser Ala Gly Ile Thr Gly Val Thr
85 90

<210> 35

<211> 218

<212> PRT

<213> Homo sapien

<400> 35

Met Gly Val Pro Ile Leu Leu Asp Ala Arg Ser Ser Pro Thr Pro Thr
1 5 10 15

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Pro Ala Ala Ser Pro Arg Val Pro Val Val Tyr Asp Ser Leu Arg Pro
20 25 30

Pro Arg Arg Pro Gly Pro Gln His Leu Pro Tyr Phe Val Pro Pro Pro
35 40 45

Asn Phe Trp Gly Ala Pro Tyr Leu Leu Pro Ala Arg Pro Trp Pro Leu
50 55 60

Phe Thr Ala Phe Gly Arg Ser Pro Ser Val Cys Pro Cys Ser Arg Ser
65 70 75 80

His Gly Cys Phe Ser Ser Pro Ala Pro Pro Pro Thr Thr His Leu Phe
85 90 95

Cys Pro Val Ser Cys Pro Gln Ala Pro Ser Gly Thr Pro Phe Arg Arg
100 105 110

Glu Thr Leu Gly Asp Glu Cys Pro Pro Ala Thr Ser Met Pro Pro Ala
115 120 125

Pro Cys Pro Ile Pro Glu Ile Phe Arg Gln Tyr Leu Lys Trp Val Pro
130 135 140

Leu Met Asn Arg Gly Ile Pro Trp Gly Asn Pro Thr Arg Gly Ile Trp
145 150 155 160

Ala Pro Phe Gln Cys Gly Glu Lys Lys Lys Phe Trp Leu Cys Pro Pro
165 170 175

Leu Asn His Lys Lys Lys Lys Lys Lys Lys Ser Thr Ala Ala
180 185 190

Ala Thr Thr Ile His His Thr Ala Pro Leu Glu His Ala Ser Arg Met
195 200 205

Asn His Gly Pro Ile Cys Leu Ser Phe Ser
210 215

<210> 36

<211> 61

<212> PRT

<213> Homo sapien

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<400> 36

Met Thr Gly Ile Thr Leu Asn Ile Cys Arg His Leu Cys Asn Leu Ser
1 5 10 15

Arg Val Asn Leu Thr Phe Arg Asn Cys Val Phe His Ser Arg Met Val
20 25 30

Met Ile Leu Gly Cys Asp Ile Trp Asp Leu Pro Thr Met Gly Thr Leu
35 40 45

Asp Lys Met Asn Thr Asp Glu Pro Thr Asp Leu Cys Tyr
50 55 60

<210> 37

<211> 56

<212> PRT

<213> Homo sapien

<400> 37

Met Ala His Cys Ser Leu Asn Leu Leu Gly Ser Ser Asn Pro Ser Val
1 5 10 15

Ser Val Pro Gln Val Thr Arg Thr Thr Gly Met Cys His His Trp Leu
20 25 30

Phe Phe Cys Leu Phe Phe Glu Thr Thr Ser Tyr Tyr Val Ala Gln Ala
35 40 45

His Leu Glu Ala Pro Gly Leu Lys
50 55

<210> 38

<211> 96

<212> PRT

<213> Homo sapien

<400> 38

Phe Phe Phe Phe Phe Ala Gly Lys Val Ser Leu Ser Pro Lys Leu Glu
1 5 10 15

Cys Ser Gly Thr Val Met Ala His Cys Ser Leu Asn Leu Leu Gly Ser
20 25 30

Ser Asn Pro Ser Val Ser Val Pro Gln Val Thr Arg Thr Thr Gly Met
35 40 45

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Cys His His Trp Leu Phe Phe Cys Leu Phe Phe Glu Thr Thr Ser Tyr
50 55 60

Tyr Val Ala Gln Ala His Leu Lys Leu Leu Gly Ser Ser Asp Pro Pro
65 70 75 80

Ser Ala Ser Ala Ser Gln Asn Ala Cys Asp Tyr Arg Gly Val Ser His
85 90 95

<210> 39

<211> 76

<212> PRT

<213> Homo sapien

<400> 39

Met Leu Pro Pro Leu Cys Phe Tyr Gln Leu Ser Arg Val Phe Ala Ser
1 5 10 15

Trp Leu Ile Lys Val Leu Val Gly Gly Gly Asn Val Cys Glu Ser Pro
20 25 30

Gly Asp Asp Asn Pro Thr Trp Phe Asn Ser Pro Thr Gly Gly Ser Pro
35 40 45

Pro Lys Trp Pro His Arg Gly Asn Pro Gln Ala Leu Leu Ala Leu Tyr
50 55 60

Cys Cys Val Val Phe Val Val Lys Phe Leu Val Tyr
65 70 75

<210> 40

<211> 146

<212> PRT

<213> Homo sapien

<400> 40

Ala Leu Ile Val Leu Gly Leu Val Leu Leu Ser Val Thr Val Gln Gly
1 5 10 15

Lys Val Phe Glu Arg Cys Glu Leu Ala Arg Thr Leu Lys Arg Leu Gly
20 25 30

Met Asp Gly Tyr Arg Gly Ile Ser Leu Ala Asn Trp Met Cys Leu Ala
35 40 45

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Lys Trp Glu Ser Gly Tyr Asn Thr Arg Ala Thr Asn Tyr Asn Ala Gly
50 55 60

Asp Arg Ser Thr Asp Tyr Gly Ile Phe Gln Ile Asn Ser Arg Tyr Trp
65 70 75 80

Cys Asn Asp Gly Lys Thr Pro Gly Ala Val Asn Ala Cys His Leu Ser
85 90 95

Cys Ser Ala Leu Leu Gln Asp Asn Ile Ala Asp Ala Val Ala Cys Ala
100 105 110

Lys Arg Val Val Arg Asp Pro Gln Gly Ile Arg Ala Trp Val Ala Trp
115 120 125

Arg Asn Arg Cys Gln Asn Arg Asp Val Arg Gln Tyr Val Gln Gly Cys
130 135 140

Gly Val
145

<210> 41
<211> 34
<212> PRT
<213> Homo sapien

<400> 41

Met Arg Lys Glu Ser Ala Asp Val Gly Tyr Asn Gly Ile Leu Ala Arg
1 5 10 15

Leu Trp Cys Gln Trp Ile Leu His Pro Thr Thr Ser Pro Cys Lys Ala
20 25 30

Lys Leu

<210> 42
<211> 80
<212> PRT
<213> Homo sapien

<400> 42

Met Phe Ala Cys Val Cys Cys Phe Gly Val Trp Cys Val Phe Gly Phe
1 5 10 15

Gly Val Val Cys Phe Val Phe Thr Leu Trp Phe Val Thr Glu Asn Trp

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Gly Glu Trp Glu Pro Gly Asn Lys Ile Ser Thr Pro Arg Glu Pro Ala
35 40 45

Phe Gly Pro Gly Tyr Pro Gln Arg Leu Phe Phe Val Phe Cys Cys Val
50 55 60

Phe Phe Pro Val Asn Thr Lys Glu Gln Ile Phe Ile Glu Leu Val Gln
65 70 75 80

<210> 43

<211> 227

<212> PRT

<213> Homo sapien

<400> 43

Thr Ser Gln Ala Asn Asn Ser Ala Ser Gly His Ser Arg Thr Thr Val
1 5 10 15

Lys Thr Ile Thr Val Ser Ala Asp Val Pro Lys Pro Ser Ile Ser Ser
20 25 30

Asn Asn Ser Lys Pro Val Glu Asp Lys Asp Ala Val Ala Phe Thr Cys
35 40 45

Glu Pro Glu Ala Gln Asn Thr Thr Tyr Leu Trp Trp Val Asn Gly Gln
50 55 60

Ser Leu Pro Val Ser Pro Arg Leu Gln Leu Ser Asn Gly Asn Arg Thr
65 70 75 80

Leu Thr Leu Phe Asn Val Thr Arg Asn Asp Ala Arg Ala Tyr Val Cys
85 90 95

Gly Ile Gln Asn Ser Val Ser Ala Asn Arg Ser Asp Pro Val Thr Leu
100 105 110

Asp Val Leu Tyr Gly Pro Asp Thr Pro Ile Ile Ser Pro Pro Asp Ser
115 120 125

Ser Tyr Leu Ser Gly Ala Asn Leu Asn Leu Ser Cys His Ser Ala Ser
130 135 140

Asn Pro Ser Pro Gln Tyr Ser Trp Arg Ile Asn Gly Ile Pro Gln Gln

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145 150 155 160

His Thr Gln Val Leu Phe Ile Ala Lys Ile Thr Pro Asn Asn Asn Gly
165 170 175

Thr Tyr Ala Cys Phe Val Ser Asn Leu Ala Thr Gly Arg Asn Asn Ser
180 185 190

Ile Val Lys Ser Ile Thr Val Ser Ala Ser Arg Thr Ser Pro Gly Leu
195 200 205

Ser Ala Gly Ala Thr Val Gly Ile Met Ile Gly Val Leu Val Gly Val
210 215 220

Ala Leu Ile
225

<210> 44
<211> 119
<212> PRT
<213> Homo sapien

<400> 44

Met Leu Glu Arg Arg Ser Val Met Asp Phe Phe Phe Phe Phe Phe
1 5 10 15

Phe Phe Phe Phe Phe Phe Phe Phe Phe Phe Leu Asn Pro Phe Phe Ser
20 25 30

Pro Pro Gly Gly Gly Val Val Gly Ser Ser Lys His Gln Ala Gln Glu
35 40 45

Glu Leu Gly Cys Val Pro Phe Leu Ala Ile Val Pro Pro Leu Glu Asn
50 55 60

Asn Thr Ser Thr Ile Phe His Leu Pro His Lys Ala Gly Gly Cys Thr
65 70 75 80

Ser Val Ala His Ile Val Val Ile Pro Val Val Cys Lys Ser Gly Leu
85 90 95

Leu Arg His Pro Ile Leu Pro Gln Asn Ile Ser Lys Lys Leu His Glu
100 105 110

His Asn Thr Pro Val Thr Arg

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115

<210> 45
 <211> 105
 <212> PRT
 <213> Homo sapien

<400> 45

Met Ser Val Ala Ser Val Pro Leu Gln Cys Asp Asp Val Arg Ser Leu
 1 5 10 15

Gln Ala Leu Asn Ala Cys Pro His Met Ser Tyr Leu Cys Cys Gly Thr
 20 25 30

Ser His Arg Gly Gln Ile Val Glu Ile Tyr Arg Val Thr Trp Tyr Leu
 35 40 45

Leu Val Asn Cys Thr Thr Asn Ala Pro Val Tyr Met Gln Cys Ile Gly
 50 55 60

Ile Val Lys Lys Phe Cys Pro Leu Pro Cys Ser His Gly Glu His Asn
 65 70 75 80

Arg Gln Phe Ser Ser Pro Val Val His Leu Glu Gln Tyr Thr Ala Leu
 85 90 95

Phe Ala Ile Asn Ile Tyr Arg Asn Ile
 100 105

<210> 46
 <211> 79
 <212> PRT
 <213> Homo sapien

<400> 46

Met Gly Pro Arg Leu Ser Gln Arg Pro Gly Ile Pro Pro Ile Leu Ser
 1 5 10 15

Asn Asn Val Arg Val Leu Ser Leu Cys Leu Pro Ala Ile Val Ala Thr
 20 25 30

Leu Leu Cys Arg Pro Glu Cys Ala Trp Ser Ser Leu Val Val Ala Leu
 35 40 45

Asn Phe Phe Ser Leu Thr Thr Thr Glu Gly Cys Ala Val Ala Ser Ala
 50 55 60

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Thr Leu Trp Glu Pro Gln Arg Gly Leu Thr Glu Arg Trp Gly Arg
65 70 75

<210> 47

<211> 74

<212> PRT

<213> Homo sapien

<400> 47

Met Cys Leu Cys Gly Gly Asp Phe Met Cys Val Gly Arg Gly Ser Asp
1 5 10 15

Thr His Ser Val Cys Arg Thr Pro Pro Gly Gly His Tyr Arg Ser Phe
20 25 30

Leu Arg Pro Leu Ser Gly Thr Leu Ala Ser Glu Leu Cys Cys Tyr Leu
35 40 45

Ser Leu Phe Phe Val Cys Phe Leu Tyr Ser Phe Ser Leu Ser Leu Val
50 55 60

Tyr Gly Gln Asn Ser Ser Arg Leu Ser Met
65 70

<210> 48

<211> 59

<212> PRT

<213> Homo sapien

<400> 48

Met Phe Cys Gln Cys Cys Ser Cys Val Val Met Val Leu Arg His Leu
1 5 10 15

Thr Ser Ala Phe Phe Ala Val Pro Gly Ala Phe Cys Leu Ala Ser Phe
20 25 30

Val Ser Thr Cys Cys Leu Ser Val Leu Leu Phe Ser Arg Asp Ser Arg
35 40 45

Gly Ile Tyr Arg Ile Tyr Arg Leu Phe Asp Val
50 55

<210> 49

<211> 60

<212> PRT

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<213> Homo sapien

<400> 49

Met Pro Glu Ser Asn Gly Pro Arg Ser Asp Arg Gln Thr Arg Val Arg
1 5 10 15

Ala Val Ile Arg Ser Ala Val Glu Gly Gly Arg His Val Gln Tyr Asp
20 25 30

Ala Asp Gln Ile Asp Ala Asn Asn Trp Ser Lys Cys Ser Thr Thr Lys
35 40 45

Gly Ala Leu Arg Ala Arg Arg His Cys Arg Leu Val
50 55 60

<210> 50

<211> 1134

<212> PRT

<213> Homo sapien

<400> 50

Arg Leu Ala Leu Ser Pro Glu Asp Lys Pro Ile Arg Leu Ser Pro Ser
1 5 10 15

Lys Ile Thr Glu Pro Leu Arg Glu Gly Pro Glu Glu Glu Pro Leu Ala
20 25 30

Glu Arg Glu Val Lys Ala Glu Val Glu Asp Met Asp Glu Gly Pro Thr
35 40 45

Glu Leu Pro Pro Leu Glu Ser Pro Leu Pro Leu Pro Ala Ala Glu Ala
50 55 60

Met Ala Thr Pro Ser Pro Ala Gly Gly Cys Gly Gly Gly Leu Leu Glu
65 70 75 80

Ala Gln Ala Leu Ser Ala Thr Gly Gln Ser Cys Ala Glu Pro Ser Glu
85 90 95

Cys Pro Asp Phe Val Glu Gly Pro Glu Pro Arg Val Asp Ser Pro Gly
100 105 110

Arg Thr Glu Pro Cys Thr Ala Ala Leu Asp Leu Gly Val Gln Leu Thr
115 120 125

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Pro Glu Thr Leu Val Glu Ala Lys Glu Glu Pro Val Glu Val Pro Val
130 135 140

Gly Val Pro Val Val Glu Ala Val Pro Glu Glu Gly Leu Ala Gln Val
145 150 155 160

Ala Pro Ser Glu Ser Gln Pro Thr Leu Glu Met Ser Asp Cys Asp Val
165 170 175

Pro Ala Gly Glu Gly Gln Cys Pro Ser Leu Glu Pro Gln Glu Ala Val
180 185 190

Pro Val Leu Gly Ser Thr Cys Phe Leu Glu Glu Ala Ser Ser Asp Gln
195 200 205

Phe Leu Pro Ser Leu Glu Asp Pro Leu Ala Gly Met Asn Ala Leu Ala
210 215 220

Ala Ala Ala Glu Leu Pro Gln Ala Arg Pro Leu Pro Ser Pro Gly Ala
225 230 235 240

Ala Gly Ala Gln Ala Leu Glu Lys Leu Glu Ala Ala Glu Ser Leu Val
245 250 255

Leu Glu Gln Ser Phe Leu His Gly Ile Thr Leu Leu Ser Glu Ile Ala
260 265 270

Glu Leu Glu Leu Glu Arg Arg Ser Gln Glu Met Gly Gly Ala Glu Arg
275 280 285

Ala Leu Val Ala Arg Pro Ser Leu Glu Ser Leu Leu Ala Ala Gly Ser
290 295 300

His Met Leu Arg Glu Val Leu Asp Gly Pro Val Val Asp Pro Leu Lys
305 310 315 320

Asn Leu Arg Leu Pro Arg Glu Leu Lys Pro Asn Lys Lys Tyr Ser Trp
325 330 335

Met Arg Lys Lys Glu Glu Arg Met Tyr Ala Met Lys Ser Ser Leu Glu
340 345 350

Asp Met Asp Ala Leu Glu Leu Asp Phe Arg Met Arg Leu Ala Glu Val
355 360 365

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Gln Arg Gln Tyr Lys Glu Lys Gln Arg Glu Leu Val Lys Leu Gln Arg
370 375 380

Arg Arg Asp Ser Glu Asp Arg Arg Glu Glu Pro His Arg Ser Leu Ala
385 390 395 400

Arg Arg Gly Pro Gly Arg Pro Arg Lys Arg Thr His Ala Pro Ser Ala
405 410 415

Leu Ser Pro Pro Arg Lys Arg Gly Lys Ser Gly His Ser Ser Gly Lys
420 425 430

Leu Ser Ser Lys Ser Leu Leu Thr Ser Asp Asp Tyr Glu Leu Gly Ala
435 440 445

Gly Ile Arg Lys Arg His Lys Gly Ser Glu Glu Glu His Asp Ala Leu
450 455 460

Ile Gly Met Gly Lys Ala Arg Gly Arg Asn Gln Thr Trp Asp Glu His
465 470 475 480

Glu Ala Ser Ser Asp Phe Ile Ser Gln Leu Lys Ile Lys Lys Lys Lys
485 490 495

Met Ala Ser Asp Gln Glu Gln Leu Ala Ser Lys Leu Asp Lys Ala Leu
500 505 510

Ser Leu Thr Lys Gln Asp Lys Leu Lys Ser Pro Phe Lys Phe Ser Asp
515 520 525

Ser Ala Gly Gly Lys Ser Lys Thr Ser Gly Gly Cys Gly Arg Tyr Leu
530 535 540

Thr Pro Tyr Asp Ser Leu Leu Gly Lys Asn Arg Lys Ala Leu Ala Lys
545 550 555 560

Gly Leu Gly Leu Ser Leu Lys Ser Ser Arg Glu Gly Lys His Lys Arg
565 570 575

Ala Ala Lys Thr Arg Lys Met Glu Val Gly Phe Lys Ala Arg Gly Gln
580 585 590

Pro Lys Ser Ala His Ser Pro Phe Ala Ser Glu Val Ser Ser Tyr Ser
595 600 605

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Tyr Asn Thr Asp Ser Glu Glu Asp Glu Glu Phe Leu Lys Asp Glu Trp
610 615 620

Pro Ala Gln Gly Pro Ser Ser Ser Lys Leu Thr Pro Ser Leu Leu Cys
625 630 635 640

Ser Met Val Ala Lys Asn Ser Lys Ala Ala Gly Gly Pro Lys Leu Thr
645 650 655

Lys Arg Gly Leu Ala Ala Pro Arg Thr Leu Lys Pro Lys Pro Ala Thr
660 665 670

Ser Arg Lys Gln Pro Phe Cys Leu Leu Leu Arg Glu Ala Glu Ala Arg
675 680 685

Ser Ser Phe Ser Asp Ser Ser Glu Glu Ser Phe Asp Gln Asp Glu Ser
690 695 700

Ser Glu Glu Glu Asp Glu Glu Glu Glu Leu Glu Glu Glu Asp Glu Ala
705 710 715 720

Ser Gly Gly Gly Tyr Arg Leu Gly Ala Arg Glu Arg Ala Leu Ser Pro
725 730 735

Gly Leu Glu Glu Ser Gly Leu Gly Leu Leu Ala Arg Phe Ala Ala Ser
740 745 750

Ala Leu Pro Ser Pro Thr Val Gly Pro Ser Leu Ser Val Val Gln Leu
755 760 765

Glu Ala Lys Gln Lys Ala Arg Lys Lys Glu Glu Arg Gln Ser Leu Leu
770 775 780

Gly Thr Glu Phe Glu Tyr Thr Asp Ser Glu Ser Glu Val Lys Val Arg
785 790 795 800

Lys Arg Ser Pro Ala Gly Leu Leu Arg Pro Lys Lys Gly Leu Gly Glu
805 810 815

Pro Gly Pro Ser Leu Ala Ala Pro Thr Pro Gly Ala Arg Gly Pro Asp
820 825 830

Pro Ser Ser Pro Asp Lys Ala Lys Leu Ala Val Glu Lys Gly Arg Lys

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835

840

845

Ala Arg Lys Leu Arg Gly Pro Lys Glu Pro Gly Phe Glu Ala Gly Pro
850 855 860

Glu Ala Ser Asp Asp Asp Leu Trp Thr Arg Arg Arg Ser Glu Arg Ile
865 870 875 880

Phe Leu His Asp Ala Ser Ala Ala Ala Pro Ala Pro Val Ser Thr Ala
885 890 895

Pro Ala Thr Lys Thr Ser Arg Cys Ala Lys Gly Gly Pro Leu Ser Pro
900 905 910

Arg Lys Asp Ala Gly Arg Ala Lys Asp Arg Lys Asp Pro Arg Lys Lys
915 920 925

Lys Lys Gly Lys Glu Ala Gly Pro Gly Ala Gly Leu Pro Pro Pro Arg
930 935 940

Ala Pro Ala Leu Pro Ser Glu Ala Arg Ala Pro Pro Pro Pro Pro Pro
945 950 955 960

Pro Pro Pro His Pro Pro Leu Pro Pro Pro Pro Leu Pro Pro Pro Pro
965 970 975

Leu Pro Leu Arg Leu Pro Pro Leu Pro Pro Pro Pro Leu Arg Pro
980 985 990

His Pro Pro Pro Pro Pro Pro Leu Pro Pro Leu Leu Pro Pro Pro Gln
995 1000 1005

Thr Arg Thr Leu Pro Ala Ala Arg Thr Met Arg Gln Pro Pro Pro
1010 1015 1020

Pro Arg Leu Ala Leu Pro Arg Arg Arg Arg Ser Pro Pro Arg Pro
1025 1030 1035

Pro Ser Arg Pro Ala Arg Arg Gly Pro Arg Pro Thr Pro Gln Ala
1040 1045 1050

Arg Arg Arg Pro Arg Pro Ser Pro Arg Arg Leu Leu Arg Ser Pro
1055 1060 1065

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His Ser Leu Cys Ser Pro Arg Leu Arg Pro Gly Pro Arg Ala Asp
1070 1075 1080

Pro Arg Arg Glu Arg Ala Ser Thr Ser Pro Pro Arg Ser Trp
1085 1090 1095

Pro Ser Gly Ser Ala Cys Arg Pro Trp Arg Thr Gly Pro Arg Ser
1100 1105 1110

Pro Pro Ser Cys Gln Pro Gly Ser Ser Gly Ser Gly Ser Ala Ser
1115 1120 1125

Pro Pro Ser Gly Val Ala
1130

<210> 51

<211> 29

<212> PRT

<213> Homo sapien

<400> 51

Met Gly Arg Cys Val Ser Leu Thr Ser Val Ile Ile Phe Asp Ile Leu
1 5 10 15

Ser Val Tyr Tyr Glu Thr Leu Ala Ser Leu Gln Ile Phe
20 25

<210> 52

<211> 161

<212> PRT

<213> Homo sapien

<400> 52

Val Ala Ile Pro Pro Leu Thr His Asn Leu Ser Ala Val Ala Pro Ser
1 5 10 15

Ile Asn Ser Gly Met Gly Thr Glu Thr Ile Pro Ile Gln Gly Tyr Arg
20 25 30

Val Asp Glu Lys Thr Lys Lys Cys Ser Ile Pro Phe Val Lys Pro Asn
35 40 45

Arg His Ser Pro Ser Gly Ile Tyr Asn Ile Asn Val Thr Thr Leu Val
50 55 60

Ser Ser Glu Lys Asn Leu Leu Trp Ala Ser Lys Lys Arg Arg Glu Tyr

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65

70

75

80

Ser Arg Thr Asp Val Arg Leu Pro Glu Leu Asn Tyr Asn His Leu Pro
85 90 95

Glu Leu Arg Ala Leu Gly Gly Ile Ala Arg Asn Ser Arg Leu Thr Lys
100 105 110

Lys Glu Ser Lys Ile Leu Ser Glu Ser Arg Ile Pro Ser Leu Ala Ala
115 120 125

Ile Asp Leu His Thr Pro Ser Ile Thr Leu His Gln Val Ser Gly Pro
130 135 140

Pro Leu Ser Asp Asp Ser Gly Ala Asp Leu Pro Gln Met Glu His Gln
145 150 155 160

His

<210> 53
<211> 33
<212> PRT
<213> Homo sapien

<400> 53

Met Asn Tyr Cys Leu Lys Thr Ser Ser Thr Ser Gln Ser Thr Thr Ala
1 5 10 15

Thr Ser Ile Cys Lys Asn His Tyr Leu Leu Tyr Val Leu Trp Tyr Leu
20 25 30

Gly

<210> 54
<211> 89
<212> PRT
<213> Homo sapien

<400> 54

Met Val Ser Ile Lys Ser Leu Leu Phe Glu Ser Tyr Val His Gly Pro
1 5 10 15

Ala Val Val Arg Phe Ser Ala Leu Gln Leu Pro Asp Thr Phe Gly Arg
20 25 30

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Pro Met Ala Glu Arg Thr Arg Leu Ser Pro Gly Val Arg Ala Pro Ala
35 40 45

Trp Ala Thr Tyr Val Gly Thr Pro Ser Arg Gly Phe Leu Leu Leu Tyr
50 55 60

Glu Lys Lys Gln Ile Ser Val Ala Lys Thr Leu Leu Gln Thr Thr Arg
65 70 75 80

Glu Ala His Arg Asn Thr Val Ser Tyr
85

<210> 55
<211> 110
<212> PRT
<213> Homo sapien

<400> 55

Met Val Gln His Arg Cys Met Leu Glu Arg Arg Val Val Met Asp Ala
1 5 10 15

Trp Ser Arg Pro Arg Tyr Ser Thr Ser Asn Phe Pro Arg Asn Gln Lys
20 25 30

Asn Gly Glu Gln Val Leu Val Ser Gln Tyr Ser Ala Ser Val Tyr Thr
35 40 45

Leu Gly Gln Gly Gln Ile Phe Pro Gly Glu Gly Phe Tyr His Cys His
50 55 60

His Leu Glu Ile Leu His Arg Leu Glu His Arg Ala Ile Asp Phe His
65 70 75 80

Phe Cys Thr Gln Leu Cys Ser Glu Thr Gly Ala Ile Gly Val Leu Gly
85 90 95

Glu Thr Gly Gln Met Glu Glu Val Glu Gly Ile Cys Thr Leu
100 105 110

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